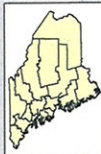


An Approach to Conserving Maine's Natural
Space for Plants, Animals, and People
and its Impacts on the Economy

Water Resources & Riparian Habitats

This map is non-regulatory and is intended for planning purposes only



This map depicts riparian areas associated with major surface water features and important public water resources. Developed areas may be located within some of the riparian areas shown. This map does not depict all streams or wetlands known to occur on the landscape and should not be used as a substitute for on the ground surveys. This map should be used as a planning reference only and is intended to illustrate the natural hydrologic connections between surface water features. Protecting riparian habitats protects water quality and can help to maintain habitat connections across the landscape.

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- Organized Township Boundary**
- Unorganized Township (Beginning with Habitat does not provide data for unorganized townships)**
- Public Water Supply Wells**
- Subwatersheds – Drainage divides are grouped together to form subwatersheds. See text below for more information.**
- Drainage Divides – These are the divide where water units mapped in Maine. They contain watershed boundaries for most ponds and rivers in Maine.**
- Developed–Impervious surfaces including buildings and roads**
- NWI Wetlands– The National Wetlands Inventory (NWI) uses aerial photography from the mid-1980's to identify wetlands based on remote sensing techniques of photo interpretation. This process did not result in a comprehensive mapping of wetland resources and typically under represents their occurrence on the ground. In addition, forested wetlands. The presence of wetlands needs to be determined in the field prior to conducting activities that could result in wetland destruction.**
- Streams and Brooks**
- Ocean, Lakes, Ponds, and Reservoirs**
- Riparian Habitat - depicted by a 250-foot-wide strip around Great Pond size and all areas in town, along the coastline, and wetlands >10 acres and by a 75-foot-wide strip around streams. These areas identify potential riparian habitat only. In some cases, riparian habitat may already be affected by development or otherwise degraded.**
- Source protection area - Buffers that represent source water protection areas for wells and surface water intakes that serve the public water supply. Their size is proportional to population served and/or the type of water supply system. These buffers range from 300 to 1,500 feet in radius.**
- Aquifers-Bow of at least 10 gallons per minute**

A watershed includes all of the land that drains to a common waterbody. The areas within the watershed are linked ecologically by the water, sediment, nutrients, and pollutants that flow through them. Watersheds can be grouped into larger drainages or divided into smaller ones. Each of these different sized "hydrological units" has a different name. Drainage basins (shown on main map as yellow line), which are the smallest units, generally drain to small ponds, wetlands, or streams. These units are grouped into subwatersheds (shown on both the main map and the above inset map by the yellow-brown-yellow outlines). Subwatersheds are grouped into watersheds, which are grouped into sub-basins. A sub-basin drains to a major waterbody like the Atlantic Ocean or the Penobscot River.

NRCS Subwatersheds

A 3D block diagram illustrating the water cycle. Precipitation falls on a green land area and a blue lake. On land, some water runs off as 'Overland Runoff' into the lake, while some infiltrates the ground, labeled 'infiltration'. From the lake, water evaporates into the air. From the land, water is taken up by plants and released as 'Transpiration'. Both evaporation and transpiration are represented by upward arrows. Below the surface, 'Ground Water' is shown in two locations, with arrows indicating water moving from the infiltration zone into the groundwater reservoir.

Precipitation is the source of all water. Surface water and ground water are related. Drinking water can come from either source. Ground contaminants can affect both. The relationship between ground water and surface water is part of the **hydrologic cycle**. **Precipitation** that falls from the atmosphere as rain or snow:

- reaches the land surface and recharges rivers, lakes, wetlands, and other surface bodies of water directly through **overland runoff**,
- soaks into the ground through **infiltration** and eventually reaches the ground water
- evaporates from Earth's surface back into the atmosphere through **evaporation**, or
- evaporates from the leaves and stems of plants through **transpiration**.

Maine's Mandatory Shoreland Zoning Act is intended to protect water quality, conserve wildlife habitat, and preserve the natural beauty of Maine's shoreline areas. Successful implementation requires local awareness of and appreciation for surface water resources and effective enforcement of setback and buffer requirements.

- Maine's shoreland zones include, at a minimum, all land within:
- 250 feet of the high-water line of any pond over 10 acres, any river that drains at least 25 square miles, and all tidal waters and saltwater marshes;
 - 250 feet of a freshwater wetland over 10 acres (except "forested" wetlands); and
 - 75 feet of a stream that is either an outlet stream of a great pond, or located below the confluence of two perennial streams as depicted on a USGS topographic map.

Many towns opt to provide greater protection to their water resources by applying shoreland zone protections to additional resource types such as smaller streams and wetlands, or expanding shoreland zone buffer widths. Please contact your town for its shoreland zoning regulations. For specific guidance regarding Maine's Mandatory Shoreland Zoning Act contact the Dept. of Environmental Protection Shoreland Zoning Unit: Richard Baker 207-287-3901 (Augusta), Michael Morse 207-822-6300 (Portland). Fax: 207-287-3901. E-mail: maine@dep.state.me.us and shoreland@dep.state.me.us

DATA SOURCE INFORMATION
 User: accessed file names (all data downloaded from Maine Office of GIS)
TOWNSHIP BOUNDARIES
 Maine Office of GIS (2000). mctg2p2
ROADS
 Maine Office of GIS, Maine Department of Transportation (2005). mctg2p0e
HYDROLOGY
 Maine Office of GIS, U.S. Geological Survey (2004). hgt2p4
DEVELOPMENT
 Maine Office of GIS, Maine Department of Environmental Protection (contact agency for this multiple agency information) (2005). mp2p1
NATIONAL WETLAND INVENTORY
 Maine Office of GIS, U.S. Fish & Wildlife Service (1995), nwi
SEASONAL BUDGETS
 Maine Natural Areas Program (2000)
WELLS, WELL HEADS
 Maine Office of GIS, Maine Department of Human Services-Drinking Water Program (2004). wells_wellhead
AQUICLIFS
 Maine Office of GIS, Maine Geological Survey (2006). aquiclip_polygons
DRAINAGE DIVIDES

Maine Office of GIS (1994). maine.gov

DATA SOURCE CONTACT INFORMATION

Maine Office of GIS: <http://apodis.us.state.me.us/catalog>
Maine Natural Area Program: <http://www.maine.gov/naturalareas/index.html>
Maine Department of Transportation: <http://www.maine.gov/transport/>
Maine Geological Survey: <http://www.maine.gov/dnr/mgs/mgs.htm>

DIGITAL DATA REQUEST

To request digital data for a town or organization, please visit our website, http://www.beginningwiththelabel.org/files_mainpage_data_request.html

